SEQUENCE LISTING

<110> Helix Research Institute, Inc.

<120> Method for screening full-length cDNA clones

<130> H1-806PCT

<150> JP 09-289982
<151> 1997-10-22

<160> 18

<170> PatentIn version 2.0

<210> 1
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligo-capping linker sequence

<400> 1
AGCAUCGAGU CGGCCUUGUU GGCCUACUGG 30

<210> 2
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligo(dT) adapter primer sequence

<400> 2
GCGGCTGAAG ACGGCCTATG TGGCCTTTTT TTTTTTTTTT TT 42

<210> 3
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Random adapter primer sequence

<400> 3
GCGGCTGAAG ACGGCCTATG TGGCCNNNNN NC 32

<210> 4

<211> 880
<212> DNA
<213> Homo sapiens

<400> 4
ATGCGCCCGC GCGGCCCTAT AGGCGCCTCC TCCGCCCGCC GCCCGGGAGC CGCAGCCGCC 60
GCCGCCACTG CCACTCCCGC TCTCTCAGCG CCGCCGTCGC CACCGCCACC GCCACTGCCA 120
CTACCACCGT CTGAGTCTGC AGTCCCGAGA TCCCAGCCAT CATGTCCATA GAGAAGATCT 180
GGGCCCGGGA GATCCTGGAC TCCCGCGGGA ACCCCACAGT GGAGGTGGAT CTCTATACTG 240
CCAAAGGTCC TTTCCGGGCT GCAGTGCCCA GTGGAGCCTC TACGGGCATC TATGAGGCCC 300
TGGAGCTGAG GGATGGAGAC AAACAGCGTT ACTTAGGCAA AGGTGTCCTG AAGGCAGTGG 360
ACCACATCAA CTCCACCATC GCGCCAGCCC TCATCAGCTC AGGTCTCTCT GTGGTGGAGC 420
AAGAGAAACT GGACAACCTG ATGCTGGAGT TGGATGGGAC TGAGAACAAA TCCAAGTTTG 480
GGGCCAATCC ATCCTGGGTG TGTCTCTGGC CGTGTGTAAG GCANGGGCAA CTGAACNGGA 540
ACTGCCCCTG TATCGCCACA TTGCTCAGCT TGGNCGGGAA CTCANACCTC ATCCTGCCTG 600
TTGCCGGCCT TCAACGTGAT CAATGGTTGG CTTCTCATGC CTGGCAACAA ANCTGGCCAT 660
TGCNGGAATT TTCATGATCC TCCCCNTTGG GAAACTGAAA AACTTTCCGG AATGCCCNTC 720
CAACTAAGTT GCAAAAGGTC TACCNATACC CCCCAAGGGG AATTCCTCCA AGGGAACAAA 780
TNCCCGGGAA AGGAATGCCC CCCAATTNTT NGGGGGAATA AAAGGTGGGC TTTGCCCCCC 840
CATTTTCCTG GAAAAAACNA TNAAAACCCT TGGGAAACTT 880

<210> 5

<211> 645
<212> DNA
<213> Homo sapiens

<400> 5
TGTGCGTTAC TTACCTCNAC TCTTAGCTTG TCGGGGACGG TAACCGGGAC CCGGTGTCTG 60
CTCCTGTCGC CTTCGCCTCC TAATCCCTAG CCACTATGCG TGAGTGCATC TCCATCCACG 120
TTGGCCAGGC TGGTGTCCAN ATTGGCAATG CCTGCTGGGA GCTCTACTGC CTGGAACACG 180
GCATCCAGCC CGATGGCCAG ATGCCAAGTG ACAAGACCAT TGGGGGAGGA GATGACTCCT 240
TCAACACCTT CTTCAGTGAG ACGGGCGCTG GCAANCACGT GCCCCGGGCT GTGTTTGTAG 300
ACTTGGAACC CACAGTCATT GATGAAGTTC GCACTGGCAC CTACCGCCAG CTCTTCCACC 360
CTGAGCAGCT CATCNCAGGC AAGGAAGATG CTGCCAATAA CTATGCCCGA GGGCACTACA 420
CCATTGGCAA GGAGATCATT GACCTTGTGT TGGACCGAAT TCGCAAGCTG GCTGACCANT 480
GCACCGGTCT TCANGGCTTC TTGGTTTTCC ACAGCTTTGG TGGGGGAACT GGTTCTGGGT 540
TCACCTCCCT GCTCATGGAA CGTCTCTCAG TTGATTATGG CAAGAAATCC AAGCTGGAGT 600
TCTCCATTTA CCCAGCACCC CNGGTTTCCN CNGCTGTANT TNGAA 645

<210> 6

<211> 820
<212> DNA
<213> Homo sapiens

<400> 6
CTTTTTTCGC AACGGGTTTG CCGCCAGAAC ACAGGTGTCG TGAAAACTAC CCCTAAAAGC 60
CAAAATGGGA AAGGAAAAGA CTCATATCAA CATTGTCGTC ATTGGACACG TAGATTCGGG 120
CAAGTCCACC ACTACTGGCC ATCTGATCTA TAAATGCGGT GGCATCGACA AAAGAACCAT 180
TGAAAAATTT GAGAAGGAGG CTGCTGAGAT GGGAAAGGGC TCCTTCAAGT ATGCCTGGGT 240
CTTGGATAAA CTGAAAGCTG AGCGTGAACG TGGTATCACC ATTGATATCT CCTTGTGGAA 300
ATTTGAGACC AGCAAGTACT ATGTGACTAT CATTGATGCC CCAGGACACA GAGACTTTAT 360
CAAAAACATG ATTACAGGGA CATCTCAGGC TGACTGTGCT GTCCTGATTG TTGCTGCTGG 420
TGTTGGTGAA TTTGAAGCTG GTATCTCCAA GAATGGGCAG ACCCGAGAGC ATGCCCTTCT 480
GGCTTACACA CTGGGTGTGA AACAACTAAT TGTCGGTGTT AACAAAATGG ATTCACTGAN 540
CCACCCTACA GCCAGAAGAA ATATGANGAA ATTGTTAAGG AAGTCAGCAC TTACATTAAG 600
AAAATTGGCT ACAACCCCGA CACAGTANCA TTTGTGCCAA TTTCTGGTTG GAATGGTGAC 660

AACATGCTGG AACCAANTGC TAACATGCCT TGGTTCCAGG GATGGAAAAT CCCCCNTTAA 720
GGATGGCNAT GCCATTGGAA CCCCCCTGCT TGAAGGCTCT GGANTGCATC CTANCACCAA 780
CTCCTTCAAA TTGAAAAACC CCTTGCNCCC GCCTCCNCCA 840

<210> 7

<211> 788
<212> DNA
<213> Homo sapiens

<400> 7
GAGGCTGAGG CAGTGGCTCC TTGCACAGCA GCTGCACGCG CCGTGGCTCC GGATCTCTTC 60
GTCTTTGCAG CGTAGCCCGA GTCGGTCAGC GCCGGAGGAC CTCAGCAGCC ATGTCGAAGC 120
CCCATAGTGA AGCCGGGACT GCCTTCATTC AGACCCAGCA GCTGCACGCA GCCATGGCTG 180
ACACATTCCT GGAGCACATG TGCCGCCTGG ACATTGATTC ACCACCCATC ACAGCCCGGA 240
ACACTGGCAT CATCTGTACC ATTGGCCCAG CTTCCCGATC AGTGGAGACG TTGAAGGAGA 300
TGATTAAGTC TGGAATGAAT GTGGCTCGTC TGAACTTCTC TCATGGAACT CATGAGTACC 360
ATGCGGAGAC CATCAAGAAT GTGCGCACAG CCACGGAAAG CTTTGCTTCT GACCCCATCC 420
TCTACCGGCC CGTTGCTGTG GCTCTAGACA CTAAAGGACC TGAGATCCGA ACTGGGCTCA 480
TCAAGGGCAG CGGCACTGCA GAGGTGGAGC TGAAGAATGG AGCCACTCTC AAAATCACGC 540
TGGATAATGC CTACATGGAA AAGTGTGACG AGAACATCCT GTGGCTGGAC TACAAGAACA 600
TCTGCAAGGT GGTGGAAGTG GGCAACAAGA TCTACGTGGA TGATGGGCTN ATTTCTCTCC 660
AGGTGAACAC AAAGGTGCCG ACTTCCTGGG TGACNGANGT GGAAAATGGT GGCTCCTTGG 720
GCNCAAGAAA GGTGTGAACT TCCTGGGGCT GCTGTGGANT TGCCTGCTGT GTCNGAAAAA 780
GACATCCA 788

<210> 8

<211> 608
<212> DNA
<213> Homo sapiens

<400> 8
ACAGCCTGGC TCCTTTGAGT ATGAATATGC CATGCGCTGG AAGGCACTCA TTGAGATGGA 60
GAAGCAGCAG CAGGACCAAG TGGACCGCAA CATCNAGGAG GCTCGTGAGA AGCTGGAGAT 120
GGAGATGGAA GCTGCACGCC ATGAGCACCA GGTCATGCTA ATGAGACAGG ATTTGATGAG 180

GCGCCAAGAA GAACTTCGGA GGATGGAAGA GCTGCACAAC CAAGANGTGC AAAAACGAAA 240
GCAACTGGAG CTCAGGCAGG AGGAANAGCG CAGGCGCCGT GAAGAANAGA TGCGGCGGCA 300
GCAAGAAGAA ATGATGCGGC GACNGCAGGA AGGATTCAAG GGAACCTTCC CTGATGCGAG 360
AGAGCAGGAG ATTCGGATGG GTCNGATGGC TATGGGAGGT GCTATGGGCA TAAACNACAG 420
ATGTGCCATG CCCCCTGCTC CTGTGCCAGC TGGTACCCCA GCTCCTCCAG GACCTGCCAC 480
TATTATGCCG GATGGAACTT TGGGATTGAC CCCACCNACA ACTGAACGCT TTGGTCNGGC 540
TGCTACNATG GAANGAATTG GGGCAATTGG TGGAACTCCT CCTGCATTCN ACCGTGCAGC 600
TCCTGGGA 608

<210> 9

<211> 869
<212> DNA
<213> Homo sapiens

<400> 9
ATATTAAACT AGTGAAGCAA CTAAGAGAAA ATGTTAAGTC TGCTATTGAT CTTGAAGAGA 60
TGGCATCTGG TCTTAACAAA AGAAAAATGA TTCAGCATGC TGTATTTAAA GAACTTGTGA 120
AGCTTGTAGA CCCTGGAGTT AAGGCATGGA CACCCACTAA AGGAAAACAA AATGTGATTA 180
TGTTTGTTGG ATTGCAAGGG AGTGGTAAAA CAACAACATG TTCAAAGCTA GCATATTATT 240
ACCAGAGGAA AGGTTGGAAG ACCTGTTTAA TATGTGCAGA CACATTCAGA GCAGGGGCTT 300
TTGACCAACT AAAACAGAAT GCTACCAAAG CAAGAATTCC ATTTTATGGA AGCTATACAG 360
AAATGGATCC TGTCATCATT GCTTCTGAAG GAGTAGAGAA ATTTAAAAAT GAAAATTTTG 420
AAATTATTAT TGTTGATACA AGTGGCCGCC ACAAACAAGA AGACTCTTTG TTTGAAGAAA 480
TGCTTCAAGT TGCTAATGCT ATACAACCTG ATAACATTGT TTATGTGATG GATGCCTCCA 540
TTGGGCAGGC TTGTGAAGCC CAGGCTAAGG CTTTTAAAGA TAAAGTAGAT GTACCTCAGT 600
AATAGTGACA AAACTTGATG GCCATGCAAA ANGAAGTGGT GCACTCAGTG CAGTCGCTGC 660
CACAAAAAAT CCGATTATTT TCATTGGTAC AGGGGGAACA TATANATGAC TTTGAACCTT 720
TCAAAAACAC AGCCTTTTAT TAACAAACTT CTTGGTATNG GCGACATTGA AAGGACTGAT 780
AAATAAAGTC CACNAATTGA AATTTGGATG ACNATGNAAA CCCTTATTGA AAAAATTGAA 840
ACATNGTCCA GTTTTACTTT GCGAAACNT 869

<210> 10

<211> 813
<212> DNA

<213> Homo sapiens

<400> 10

GTTGTGGTAT CTGTATTAAG AAATGCCCCT TTGGCGCCTT ATCAATTGTC AATCTACCAA 60
GCAACTTGGA AAAAGAAACC ACACATCGAT ATTGTGCCAA TGCCTTCAAA CTTCACAGGT 120
TGCCTATCCC TCGTCCAGGT GAAGTTTTGG GATTAGTTGG AACTAATGGT ATTGGAAAGT 180
CAACTGCTTT AAAAATTTTA GCAGGAAAAC AAAAGCCAAA CCTTGGAAAG TACGATGATC 240
CTCCTGACTG GCAGGAGATT TTGACTTATT TCCGTGGATC TGAATTACAA AATTACTTTA 300
CAAAGATTCT AGAAGATGAC CTAAAAGCCA TCATCAAACC TCAATATGTA GACCAGATTC 360
CTAAGGCTGC AAAGGGGACA GTGGGATCTA TTTTGGACCG AAAAGATGAA ACAAAGACAC 420
AGGCAATTGT ATGTCAGCAG CTTGATTTAA CCCACCTAAA AGAACGAAAT GTTGAAGATC 480
TTTCAGGAGG AGAGTTGCAG AGATTTGCTT GTGCTGTCGT TTGCATACAG AAAGCTGATA 540
TTTTCATGTT TGATGAGCCT TCTAGTTACC TAGATGTCAA GCAGCGTTTA AAGGCTGCTA 600
TTACTATACG ATCTCTAATA AATCCAGATA GATATATCAT TGTGGTGGAA CATGATCTAA 660
GTGTATTAGA CTATCTCTCC GACTTCATCT GCTGTTTATA TGGTGTACCA AGCGCCTATG 720
GAATTGTCAC TATGCCTTTT AGTGTTAGAA AAGGCATAAA CNTTTTTTGG ATGGGTATGT 780
TCCAACAGAA AACTTGANAA TCNNAAATGC NTC 813

<210> 11

<211> 655
<212> DNA
<213> Homo sapiens

<400> 11

AGACTCTCAC CGCAGCGGCC AGGAACGCCA GCCGTTCACG CGTTCGGTCC TCCTTGGCTG 60
ACTCACCGCC CTCGCCGCCG CACCATGGAC GCCCCCAGGC AGGTGGTCAA CTTTGGGCCT 120
GGTCCCGCCA AGCTGCCGCA CTCAGTGTTG TTAGAGATAC AAAAGGAATT ATTAGACTAC 180
AAAGGAGTTG GCATTAGTGT TCTTGAAATG AGTCACAGGT CATCAGATTT TGCCAAGATT 240
ATTAACAATA CAGAGAATCT TGTGCGGGAA TTGCTAGCTG TTCCAGACAA CTATAAGGTG 300
ATTTTTCTGC AAGGAGGTGG GTGCGGCCAG TTCAGTGCTG TCCCCTTAAA CCTCATTGGC 360
TTGAAAGCAG GAAGGTGTGC GGACTATGTG GTGACAGGAG CTTGGTCAGC TAAGGCCGCA 420
GAAGAAGCCA AGAAGTTTGG GACTATAAAT ATCGTTCACC CTAAACTTGG GAGTTATACA 480
AAAATTCCAG ATCCAAGCAC CTGGAACCTC AACCCANATG CCTCCTACGT GTTTTATTGC 540
NCAAATGAAA CGGTGCATGG TGTTGANTTT GACTTTATAC CCNATGTCAA GGGAACANTA 600
CTGGTTTGTG ACATTTTCCT CCAACTTCCT GTCCAANCCA ATTGNATGTT TCCAA 655

<210> 12

<211> 599
<212> DNA
<213> Homo sapiens

<400> 12
AAAGATGCGC AGGCGCCGTG TGGCACTCGG CGGTCGAAAG GGGAGTTCAA GGAGACGGGG 60
GCGACGCGGC TGAGGGCTTC TCGTCGGGGT CGGGGCTGCA GCCGTCATGC CGGGGATAGT 120
GGAGCTGCCC ACTCTAGAGG AGCTGAAAGT AGATGAGGTG AAAATTAGTT CTGCTGTGCT 180
TAAAGCTGCG GCCCATCACT ATGGAGCTCA ATGTGATAAG CCCAACAAGG AATTTATGCT 240
CTGCCGCTGG GAANAGAAAG ATCCGAGGCG GTGCTTAGAG GAAGGCAAAC TGGTCAACAA 300
GTGTGCTTTG GACTTCTTTA GGCAGATAAA ACGTCACTGT GCAGAGCCTT TTACAGAATA 360
TTGGACTTGC ATTGATTATA CTGGCCAGCA GTTATTTCGT CACTGTCGCA AACAGCAGGC 420
AAAGTTTGAC NAGTGTGTGC TGGACAAACT GGGCTGGGTG CGGCCTGACC TGGGAAAACT 480
GTCAAAGGTC ACCAAAGTGA AAACAGATCN ACCTTTACCG GANAATCCCT ATCACTCAAG 540
AACAAGAACG GATCCCAGCC CTGANATCNA AGGAAATCTG CANCCTGCCA CACATGGCA 599

<210> 13

<211> 597
<212> DNA
<213> Homo sapiens

<400> 13
ATATCCGGAG TAGACGGAGC CGCAGTAGAC GGATCCGCGG CTGCACCAAA CACTGCCCCT 60
CGGAGCCTGG TAGTGGGCCA CAAGCCCCCA GTCCCAGAGG CGTGATTTTC TGGCATCCTT 120
AAATCTTGTG TCAAGGATTG GTTATAATAT AACCAGAAAC CATGACGGCG GCTGAGAACG 180
TATGCTACAC GTTAATTAAC GTGCCAATGG ATTCAGAACC ACCATCTGAA ATTAGCTTAA 240
AAAATGATCT AGAAAAAGGA GATGTAAAGT CAAAGACTGA AGCTTTGAAG AAAGTAATCA 300
TTATGATTCT GAATGGTGAA AAACTTCCTG GACTTCTGAT GACCATCATT CGTTTTGTGC 360
TACCTCTTCA GGATCACACT ATCAAGAAAT TACTTCTGGT ATTTTGGGAG ATTGTTCCTA 420
AAACAACTCC AGATGGGAGA CTTTTACATG AGATGATCCT TGTATGTGAT GCATACAGAA 480
AGGATCTTCA ACATCCTAAT GAATTTATTC NAAGGATCTA CTCTTCGTTT TCTTTGCAAA 540
TTGAAANAAA CANAATTGCT AAAACCTTTA ATGCCANCTA TNCCTGCATT TTTGGGA 597

<210> 14

<211> 634
<212> DNA
<213> Homo sapiens

<400> 14
AGACTCTCAC CGCAGCGGCC AGGAACGCCA GCCGTTCACG CGTTCGGTCC TCCTTGGCTG 60
ACTCACCGCC CTCGCCGCCG CACCATGGAC GCCCCCAGGC AGGTGGTCAA CTTTGGGCCT 120
GGTCCCGCCA AGCTGCCGCA CTCAGTGTTG TTAGAGATAC AAAAGGAATT ATTAGACTAC 180
AAAGGANTTG GCATTAGTGT TCTTGAAATG AGTCACAGGT CATCAGATTT TGCCAAGATT 240
ATTAACAATA CAGAGAATCT TGTGCGGGAA TTGCTAGCTG TTCCAGACAA CTATAAGGTG 300
ATTTTTCTGC AAGGAGGTGG GTGCGGCCAG TTCAGTGCTG TCCCCTTAAA CCTCATTGGC 360
TTGAAAGCAG GAANGTGTGC GGACTATGTG GTGACAGGAG CTTGGTCAGC TAAGGCCGCA 420
NAANAAGCCA AGAANTTTGG GACTATAAAT ATCGTTCACC CTAAACTTGG GAGTTATACA 480
AAAATTCCAG ATCCAAGCAC CTGGAACCTC AACCCAGATG CCTCCTACGT GTATTATTGC 540
GCNAATGAAA CNGTGCATGG TGTGGANTCT GACTTTATAC CCGATGTCNA GGGAACATAC 600
TGGTTTGTGA CATGTCCTCA AACTTCCCGT CCNA 634

<210> 15

<211> 757
<212> DNA
<213> Homo sapiens

<400> 15
AGTCTGCGGT GGGCTANCGG ACGGTCCGGC TTCCGGCGGC CGTTTCTGTC TCTTGCTGGC 60
TGTCTCGCTG AATCGCGGCC GCCTTCTCAT CGCTCCTGGA AGGTCCCGAG CGCGACACCA 120
TGTCGGAACC CGGGGGCGGC GGCGGCGAAG ACNGCTCGGC CGGATTGGAA GTGTCGGCCG 180
TGCANAATGT GGCGGACGTG TCGGTGCTGC ANAAGCACCT GCGCAAGCTG GTGCCGCTGC 240
TGCTGGAGGA CGGCGGCGAA GCGCCGGCCG CGCTGGAGGC GGCGCTGGAG GAGAAGAGCG 300
CCCTGGAGCA GATGCGCAAG TTCCTTTCGG ACCCGCACGT CCACACGGTG CTGGTGGAGC 360
GCTCCACGCT CAAAGTGGAC GTCGGTGATG AAGGAGAAGA AGAAAAAGAA TTCATTTCCT 420
ATAACATCAA CNTAGACATT CACTATGGGG TTAAATCCAA TAGCTTGGCA TTCATTAAAC 480
GTACTCCCGT GATTGATGCA GATAAACCCG TGTCTTCTCA NCTCCGGGTC CTTACACTCA 540

GTGAANACTC NCCCTACNAA AACTTTGCAT TCTTTCATTA ACAATGCAGT GGCTCCTTTT 600
TTTAANTCCT ACATTAAAAA ATCTGGCAAG GCAAACAGGG ATGGTGATAA AATGGCTCCT 660
TCCNTTGAAA AAAAAATTGC CGAACTCNAA ATNGGACTCC TTCCCTTGCA NCAAAATTTT 720
TGAAATTCCG GAAAATCANC CTGCCCAATT CCTCCCC 757

<210> 16

<211> 300
<212> DNA
<213> Homo sapiens

<400> 16
ATCATTTCCT TATTTATATT TCATGTTGGA ATGCTTAAAT CGATAACCTT TGTATTTTGA 60
AGTGCGCGAC ATGGAAGGTG ATCTGCAAGA GCTGCATCAG TCAAACACCG GGGGATAAAT 120
CTGGATTTGG GTTCCGGCGT CAAGGTGAAG ATAATACCTA AAGAGGAACA CTGTAAAATG 180
CCAGAAGCAG GTGAANAGCA ACCACAAGTT TAAATGAAGA CAAGCTGAAA CAACGCAAGC 240
TGGTTTTATA TTAGATATTT GACTTAAACT ATCTCAATAA AGTTTTGCAG CTTTCACCAC 300

<210> 17

<211> 313
<212> DNA
<213> Homo sapiens

<400> 17
AAAGATGGCG GCGGGGGAGG TAGGCAGAGC AGGACGCCGC TGCTGCCGCC GCCACCGCCG 60
CCTCCGCTCC AGTCGCCTCC GGTCCTTCAA ACTCACACCT CCCGGGAGGA GCTGTCCTGG 120
CGCCGGGTCC CGCGGGGAAA ATGGTGGAGC CAGGGCAAGA TTTACTGCTT GCTGCTTTGA 180
GTGAGAGTGG AATTAGTCCG AATGACTCTT TGATATTGAT GGTGGAGATG CANGGCTTGC 240
AACTCCAATG CCTACCCCGT CAGTTCAGCA NTCAGTGCCA CTTANTGCAT TANAACTANG 300
TTTGGAGACC GAA 313

<210> 18

<211> 667
<212> DNA

<213> Homo sapiens

<400> 18

ACTGCCGGGC TCGGCGTGAG TCGCTGCGGG GCTGACGGGG TGGCAGTGCG GCGGGTTACG 60
GCCTGGTCAG ACCATAATGA CTTCAGCAAA TAAAGCAATC GAATTACAAC TACAAGTGAA 120
ACAAAATGCA GAAGAATTAC AAGACTTTAT GCGGGATTTA GAAAACTGGG AAAAAGACAT 180
TAAACAAAAG GATATGGAAC TAAGAAGACA GAATGGTGTT CCTGAAGAGA ATTTACCTCC 240
TATTCGAAAT GGGAATTTTA GGAAAAAGAA GAAAGGCAAA GCTAAAGAGT CTTCCCCAAA 300
ACCANAGAGG AAAAACACNAA AAACAGGATA AAATCTTATG ATTATGANGC ATGGGCAAAA 360
CTTGATGTGG ACCGTATCCT TGATGAGCTT GACAAAGACG ATAGTACCCA TGAGTCTCTG 420
TCTCAAGAAT CAGAGTCGGA AGAAGATGGG ATTCATGTTG ATTCNCNAAA GGCTCTTGTT 480
TTAAAAGAAA AGGGCNATAA ATACTTCCAC AAGGAAAATA TGATGAAGCA ATTGACTGCT 540
ACACNAAAGG CNTGGATGCC GATCCATATN ATCCCGTGTT GCCAACGAAC ANAACNTCCG 600
CATATTTTAG ACTGAAAAAA TTTGCTGTTG CTGAATCTGA TTGTTATTTAN CANTTGCCT 660
TGAAATA 667